

ABSTRACT

~~A composition used in making wallboard is provided. The composition requires at~~
least fly ash, water and a first binder. The composition is located between two members that
together form the wallboard. In one embodiment, at least the first binder is part of a
5 foamable solution and part of a binder solution. In this embodiment, the fly ash, foamable
solution and binder solution are combined in a mixer. The output of the mixer can be
regulated based on detection of a magnitude related to viscosity of the composition. During
the process for making the wallboard, the composition is sandwiched between the two
members and subject to both preheating and subsequent heating stages. During the
10 preheating, a sufficient number of bubbles associated with the binder are maintained in order
~~to achieve a predetermined density based on the closed cells that are formed after the water~~
evaporates. Additionally, any expansion during the subsequent heating step is controlled so
that it is less than expansion of the composition during the preheating.

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